



MMBD4148A/CA/CC/SE(SWITCHING DIODES)

特点/Features :

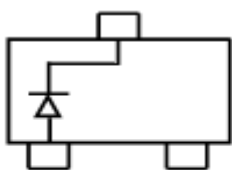
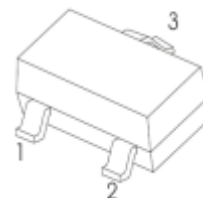
- 速度快 ;
- 反向阻抗高 ;

用途/Applications :

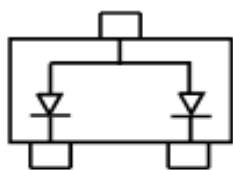
- 高速开关电路。

电路和印章/Circuit&Marking:

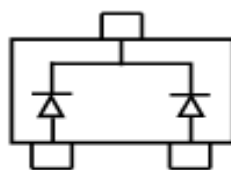
SOT-23



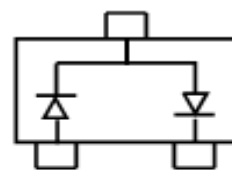
MMBD4148A
MARKING: 5H



MMBD4148CA
MARKING: D6



MMBD4148CC
MARKING: D5



MMBD4148SE
MARKING: D4

极限参数/Absolute maximum ratings(Ta=25°C)

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
反向直流电压/DC Reverse Voltage	V_R	100	V
反向重复峰值电压/Peak Repetitive Reverse Voltage	V_{RRM}	100	V
正向连续电流/Forward Continuous Current	I_{FM}	300	mA
平均整流输出电流/Average Rectified Output Current	I_O	200	mA
正向瞬间峰值电流 @=1μS Peak Forward Surge Current @=1.0S	$I_{FM(surge)}$	2.0 1.0	A
功率/ Power Dissipation	P_D	0.35	W
热阻/Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	°C/W
结温/Junction Temperature	T_j	150	°C
储存温度/Storage Temperature	T_{stg}	-55~150	°C

电性能参数/Electrical characteristics (Ta=25°C)

参数/Parameter	符号	测试条件	最小值	最大值	单位
反向击穿电压 Reverse Breakdown Voltage	$V_{BR(R1)}$	$I_R=100 \mu A$	100		V
	$V_{BR(R2)}$	$I_R=5 \mu A$	75		V
正向电压/Forward Voltage	V_{F1}	$I_F=10mA$		1	V
反向漏电流/Reverse Current	I_{R1}	$V_R=75V$		5	μA
	I_{R2}	$V_R=25V$		25	nA
端电容 Capacitance Between Terminals	C_T	$V_R=0, f=1MHz$		4	pF
反向恢复时间 Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA, V_R=6V,$ $I_{rr}=0.1 \times I_R, R_L=100 \Omega$		4	nS



典型特性曲线图/Typical Characteristics

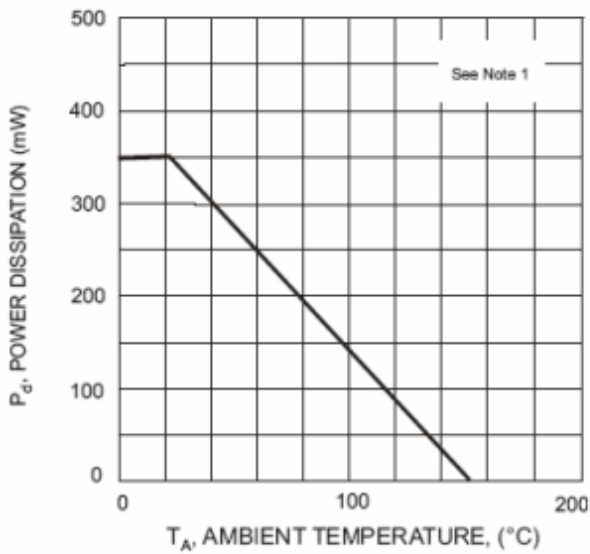


Fig. 1 Power Derating Curve

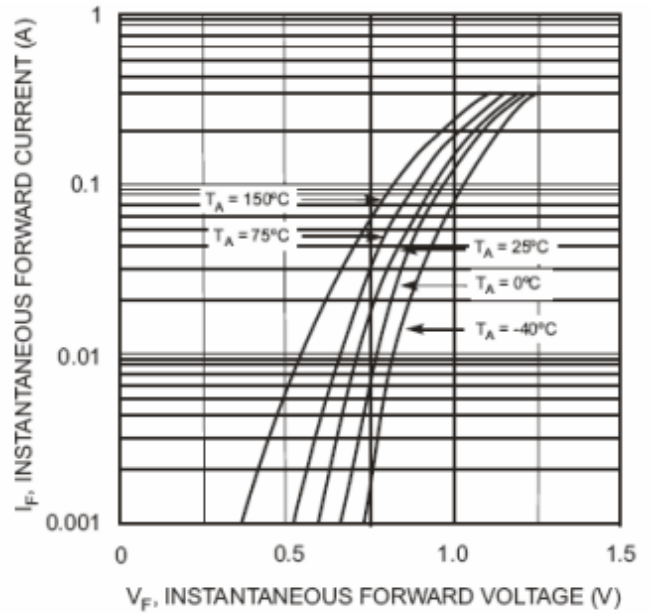


Fig. 2 Forward Characteristics

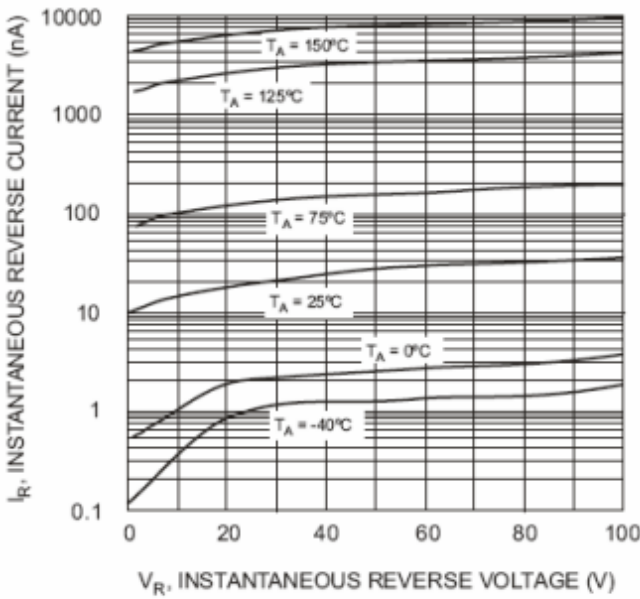


Fig. 3 Typical Reverse Characteristics

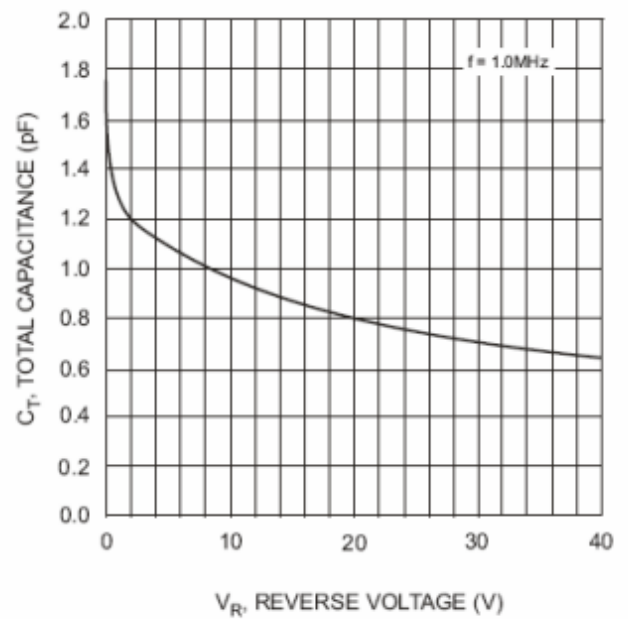


Fig. 4 Typical Capacitance vs. Reverse Voltage